

# Product Information Packet

November 8, 2016

Data shown is for the current revision model #. Ensure your nameplate model # matches.

<b>Model Number:</b>	<b>5KS184XAA2031B</b>
<b>Catalog Number:</b>	<b>M9412</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG1
<b>Outline Drawing:</b>	4002B5818PDP5310

<b>Accessory Connection Diagrams</b>			
<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	None
<b>RTD:</b>	None	<b>Thermistor:</b>	None
<b>Thermostat:</b>	None	<b>Winding Thermocouple:</b>	None
<b>Bearing RTD:</b>	None		

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**Marks:**

<b>MODEL NUMBER:</b>	<b>5KS184XAA2031B</b>	<b>Estimated Weight:</b>	101 Lbs
<b>Outline Drawing:</b>	4002B5818PDP5310	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG1	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-56128	<b>Encl Construction:</b>	841
<b>Design Code:</b>	18BD1001A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	184TC	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	4	<b>Nominal Efficiency:</b>	89.5 %
<b>Output Power:</b>	5HP 3.7KW	<b>Guaranteed Efficiency:</b>	88.5
<b>RPM:</b>	1755	<b>3/4 Load Efficiency:</b>	90.4
<b>Voltage:</b>	460	<b>KVA Code:</b>	J
<b>Hertz:</b>	60	<b>Max KVAR:</b>	2.0
<b>Amps - FL:</b>	6.6	<b>Power Factor:</b>	79.5
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6307ZC3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6206ZC3

**Enclosure is Totally Enclosed Fan-Cooled**

**Stamped Nameplate Notes:**

IEEE-STD-841-2009  
 DE BRG 35BC03JP30 ODE BRG 30BC02JP30  
 STAMP NP249A5564P051 AS BELOW:  
 MODEL:5KS184XAA2031B S/N: XXX  
 CSA CERTIFIED CSA09.2216219 FOR EX NA IIC 200 C GC  
 CL1ZONE2 AEXNAIIC 200 C; CL1DIV2 GRP ABCD 200 C  
 IN -25C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR  
 SURF TEMP 200 C AT 1.15 SF ON SINE-WAVE PWR  
 OR 200 C VT OR 215 C CT OR 200 C CHP PWM CONTROL  
 ALTERNATE RATING FOR PWM CONTROL 1.0 SF 40 C AMB  
 VT 0-60 HZ, CT 6-60 HZ, CHP 60-90 HZ.

**Additional Information:**

4P - T EXTN  
 C/BOX 55 CU IN-1.00 NPT  
 "C" FACE AT DE ENDSHIELD ROUND FRAME  
 VERTICAL MOUNT SHAFT DOWN WITH DRIPCOVER  
 PAINTED FRAME ID & SHAFT,  
 FAN COVER INSIDE & ODE E/S OUTSIDE  
 ROUTINE AND 5 POINT VIBRATION TESTS INCL IN C/BOX  
 INPRO SEAL BOTH ENDS  
 BURNDY SERVIT POST ON FRAME  
 SHAFT RUNOUT LIMIT .001" TIR  
 COPPER WASHER UNDER HEADS OF BEARING CAP BOLTS  
 APPLY TITE-SEAL (A50CD427A) ON BEARING CAP SCREWS, RABBETS,  
 AND PLUG THREADS  
 OIL RESISTANT SLEEVING ON LEADS



**Performance Characteristics**

1st Winding 1st Connection

**Design: 18BD1001A**

Marks:

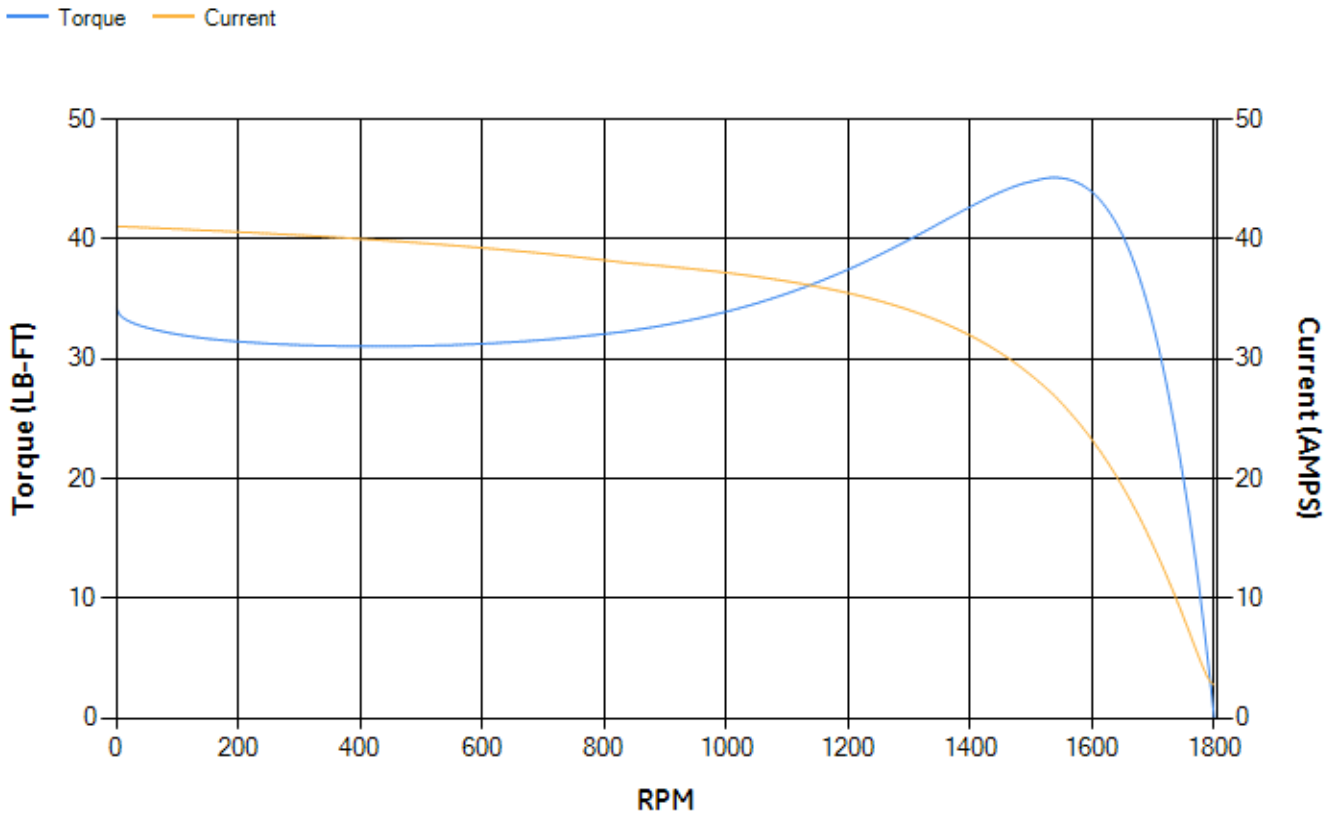
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	88.12	88.78	89.81	90.44	90.1	85.98	0.00
% PF	81.6	80.98	80.8	74.23	63.37	41.66	5.79
AMPS	8.14	7.49	6.45	5.23	4.1	3.27	2.74

TORQ(FL)#FT	14.97	TORQ(LR)%FL	228.66	TORQ(BD)%FL	298.67
AMPS(LR)	41.06	PF AT START	0.51		

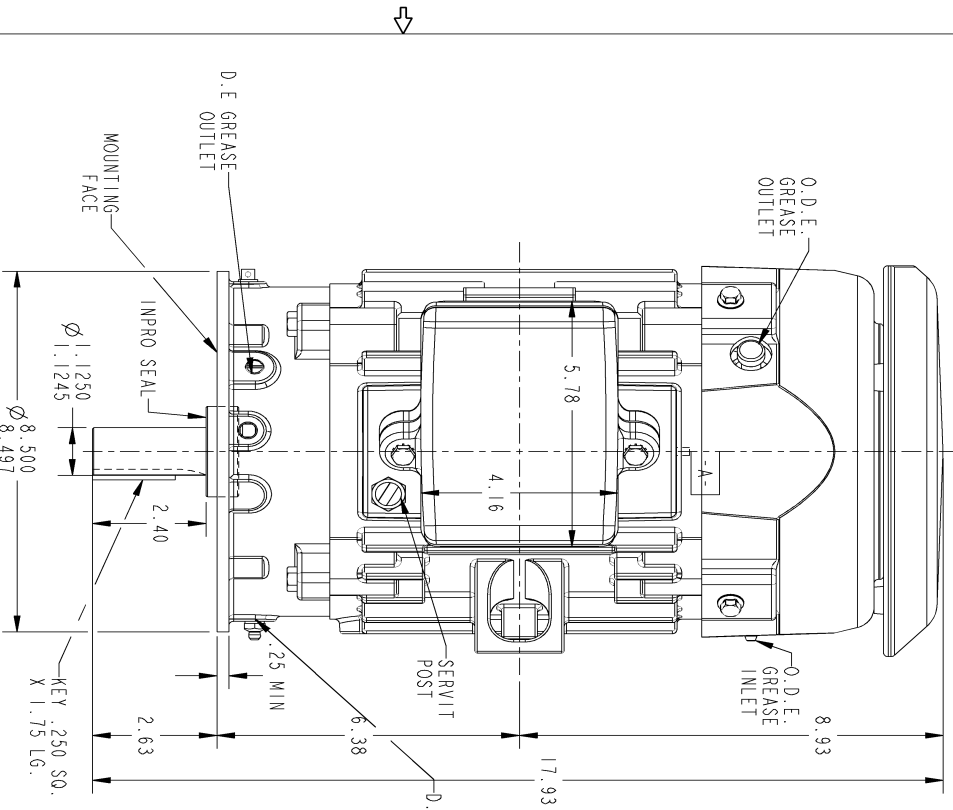
This motor is capable of two cold or one hot start with a maximum connected load inertia of 183 Lb-Ft Sq (7.7 Kg-meter Sq) at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 36 seconds. Safe stall time at 100% voltage is 79 seconds cold, 51 seconds hot. Rotor inertia is 0.35 Lb-Ft Sq (0.01 Kg-meter Sq).

Open Circuit A-C:	0.237	Short Circuit D-C:	0.008
Short Circuit A-C:	0.012	X/R Ratio:	3.151
Stator Slots:	36	Rotor Slots:	28

**Speed Torque Current Curve (First Connection, First Speed)**

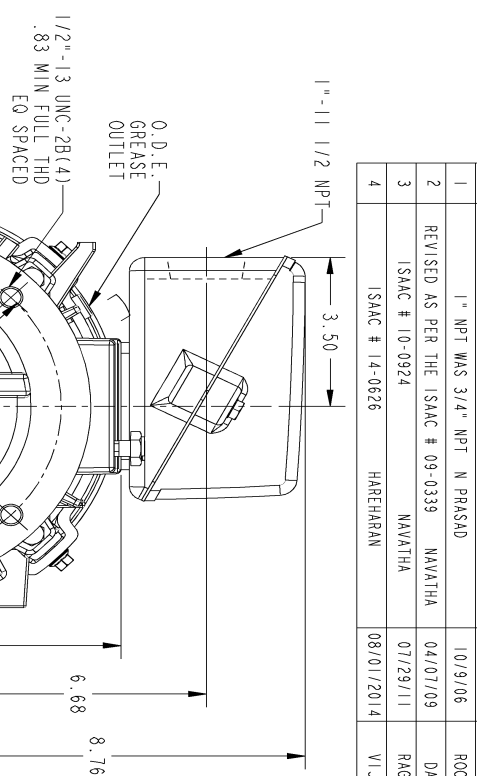
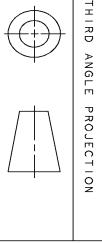


Marks:



VIEW "A"

- NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE ON EITHER SIDE.
- NOTE 2: F1 ASSEMBLY AS SHOWN. F2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE FROM SHOWN LOCATION.
- NOTE 3: MOUNTING SURFACES WILL BE SQUARE AND CONCENTRIC WITH SHAFT WITHIN .004 T.I.R.
- NOTE 4: SHAFT RUNOUT WILL NOT EXCEED .001 T.I.R.



VIEW AT ARROW "A"

SIGNATURES	DATE	APPROVED
DRMAN AMANO 03/09/10	03/09/10	ROOPA
ENGRB DOOHAN 03/09/10	03/09/10	DAN
ISSHO DOOHAN 03/09/10	03/09/10	RAGHU
APPLIED PRACTICES		VIJAY

SCALE: 0.400 REF. NO: - SHEET 1 OF 1

SIZE DRAWING NO. 4002B5818PDP5310 5H REV 4

REV.	DESCRIPTION	DATE	APPROVED
1	1" NPT WAS 3/4" NPT N PRASAD	10/9/06	ROOPA
2	REVISED AS PER THE ISAC # 09-0339	04/07/09	DAN
3	ISAC # 10-0924	07/29/11	RAGHU
4	ISAC # 14-0626	08/01/2014	VIJAY

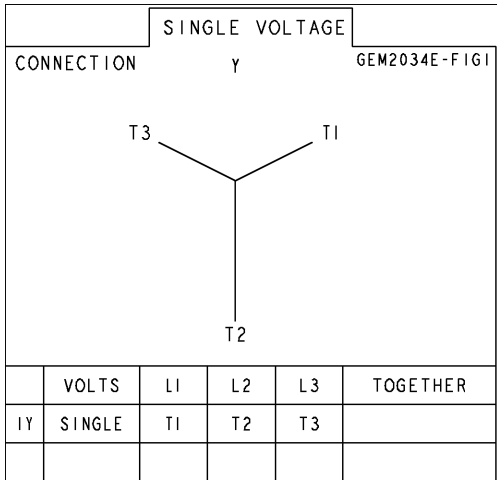
GE Industrial Systems  
**INDUCTION MOTOR OUTLINE**  
 IEEE-941 SPEC C FACE AT DE FOOTLESS WITH DRIP COVER  
 FME: 5KS184XAB226 (850" RABBIT)  
**4002B5818PDP5310**

GENERAL ELECTRIC COMPANY  
 Fort Wayne, Indiana

DISTRIBUTION: PMP-18K15

Marks:

**Connection Diagram**  
**GEM2034E-FIG1**



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5286PE1	4004D5281SG1
Bearing	235A2601AA01	235A2602AA01
Slinger/Inproseal	316A5384AJ1	4002B5914AG2

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	4001A5914AM-G01
Fan Cover	4003C5518BN-G01

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5721PA-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	